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CONSULTANTS:



**MORRISON
MAIERLE, INC.**

An Employee-Owned Company

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Surveyors
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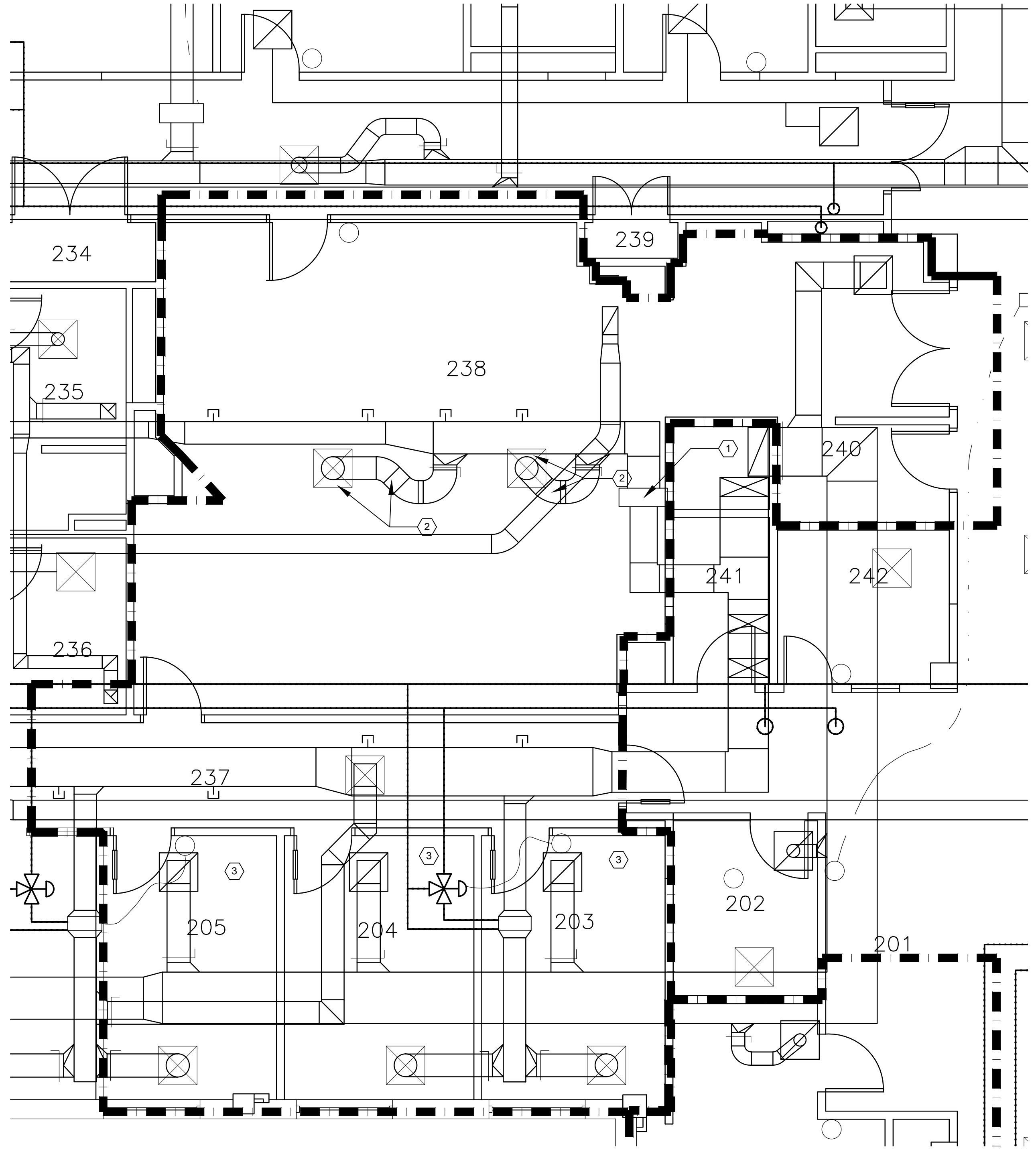
ARCHITECT/ENGINEERS:	 Program, Project and Construction Management
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Project Title		
VAMC FORT HARRISON SPD RENOVATION		
Location		
FT. HARRISON, MONTANA		
Date	Checked	Drawn
07/18/2014	JTW	TCH

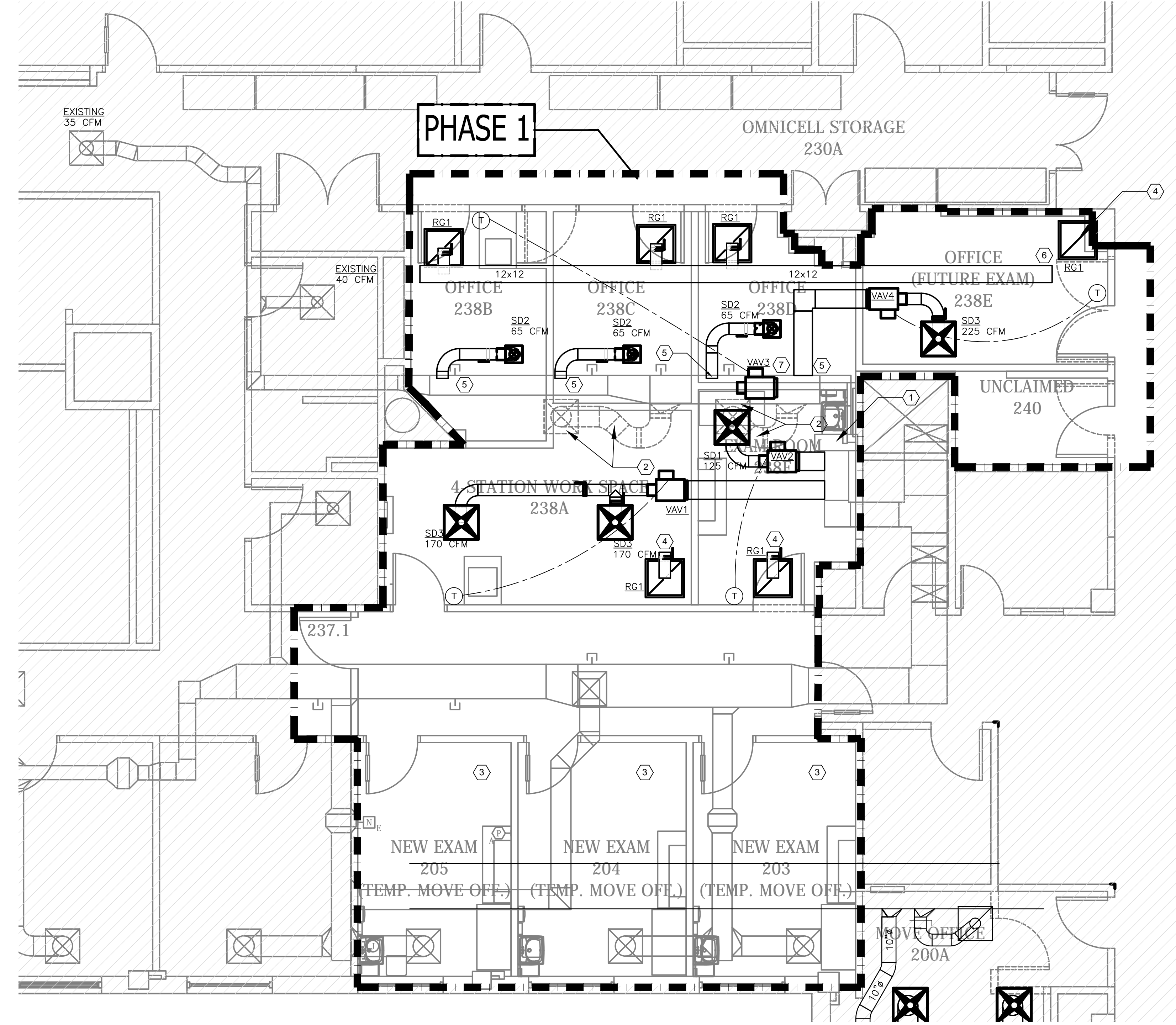
Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot



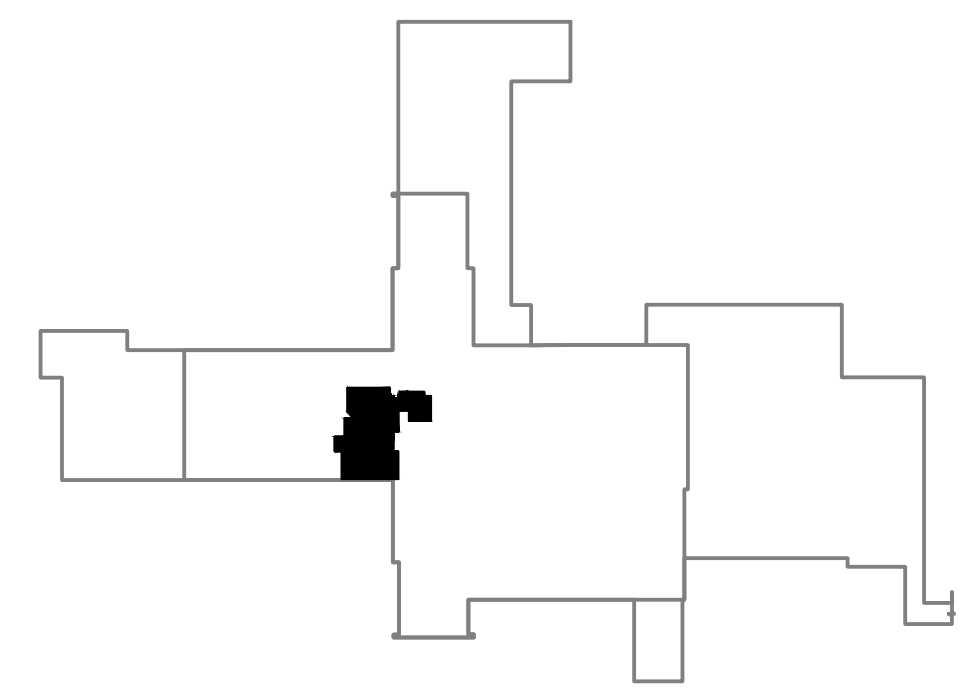
1 EXISTING HVAC LAYOUT
MH101 1/4" = 1'-0"



2 NEW HVAC LAYOUT
MH101 1/4" = 1'-0"

- GENERAL NOTES:
- A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.
 - B. ALL DIMENSIONS AND EXACT UNIT LOCATIONS ARE TO BE FIELD VERIFIED. THESE DRAWINGS REPRESENT SCHEMATIC SYSTEMS.
 - C. PROVIDE SEISMIC BRACING OF ALL EQUIPMENT, PIPING, AND DUCTWORK AS REQUIRED BY LOCAL CODES.
 - D. COORDINATE AVAILABLE SPACE FOR EQUIPMENT AND PIPING SYSTEMS WITH OTHER TRADES. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS AND FIRE PROTECTION SHOP DRAWINGS FOR ADDITIONAL DETAILS NECESSARY FOR COORDINATION.
 - E. ALL DUCT AND PIPING IS SCHEMATICALLY DRAWN AND COORDINATION BETWEEN TRADES MUST BE DONE FOR PROPER EQUIPMENT, PIPING, AND DUCTWORK PLACEMENT AND DESIGN.
 - F. CONTRACTOR IS TO ROUTE ALL DUCTWORK TO AVOID TRUSS' AS FIELD CONDITIONS DICTATE. IF DUCT IS SHOWN AS GOING THROUGH A TRUSS, THIS WILL NEED TO BE ADJUSTED IN THE FIELD TO FIT. DUCTWORK LOCATIONS ARE SHOWN AS APPROXIMATE AND NOT EXACT. CONTRACTOR IS TO CHECK DUCTWORK DIMENSIONS IN THE FIELD AND COMPARED WITH SPACE AVAILABLE BETWEEN TRUSS'. IF A DIFFERENT DIMENSION IS REQUIRED TO MAKE THE DUCT FIT, IT IS THE CONTRACTORS RESPONSIBILITY TO CHANGE THE SHEET METAL DIMENSIONS (WHILE KEEPING THE SAME FREE CROSS SECTIONAL AREA AND NOT EXCEEDING A 3-1 RATIO) AND FABRICATE DUCTWORK ACCORDINGLY.
 - G. FOLLOW MANUFACTURES WRITTEN INSTALLATION INSTRUCTION FOR RUNNING THE COMBUSTION AIR AND VENT PIPING AS WELL AS THE TERMINATION THROUGH THE ROOF. FOLLOW ALL SAFETY INSTRUCTIONS.
 - H. CONTRACTOR SHALL REBALANCE EXISTING AIR DEVICES TO THE VALUES SHOWN ON THE DRAWING.
 - I. COORDINATE ALL CONCRETE PENETRATIONS WITH STRUCTURAL DRAWINGS TO VERIFY HOW AND WHERE CONCRETE CAN BE CUT.
 - J. ALL PIPING THAT IS EXPOSED MUST BE PAINTED TO MATCH SURROUNDINGS.
 - K. MECHANICAL CONTRACTOR SHALL FIRE SEAL ALL PIPING AND DUCTWORK PASSING THROUGH RATED CONSTRUCTION.

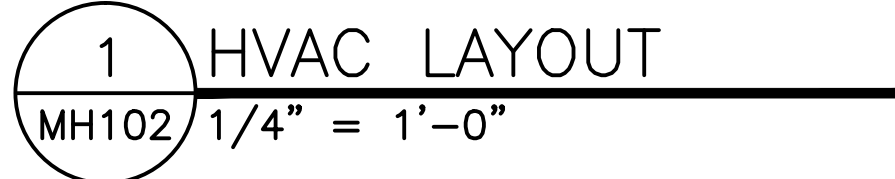
- KEY NOTES:
- 1. REMOVE EXISTING VAV BOX - OWNER SALVAGE
 - 2. REMOVE EXISTING DUCTWORK AND SUPPLY DIFFUSER - PATCH DUCTWORK AS REQUIRED
 - 3. EXISTING HVAC SYSTEM TO REMAIN
 - 4. CONNECT NEW RETURN AIR GRILLE TO EXISTING RETURN AIR DUCT IN THIS AREA
 - 5. CONNECT NEW SUPPLY AIR DUCTWORK TO EXISTING SUPPLY AIR DUCT IN THIS AREA
 - 6. CONNECT NEW RETURN AIR DUCTWORK TO EXISTING RETURN AIR DUCT IN THIS AREA
 - 7. INSTALL NEW VAV BOX IN EXISTING DUCT AT THIS LOCATION




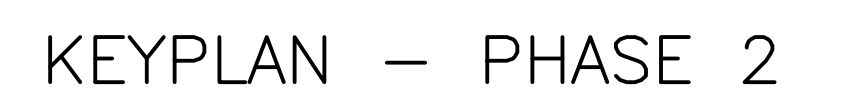
KEYPLAN - PHASE 1

Construction Document Submission
18 July 2014

<p>Revisions:</p> <table><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>6</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>8</td><td></td></tr><tr><td>9</td><td></td></tr><tr><td>10</td><td></td></tr></table>		1		2		3		4		5		6		7		8		9		10		<p>CONSULTANTS:</p> <p>MORRISON MAIERLE, INC. An Employee-Owned Company 125 Schoolhouse Loop Kalispell, MT 59901 406.752.2216</p> <p>A&E ARCHITECTS ARCHITECTURE INTERIORS HISTORIC 608 NORTH 29TH BILLINGS, MT 59101 PH 406.248.2633 FAX 406.248.2427 224 N. HIGGINS, SUITE B MISSOULA, MT 59802 PH 406.721.5143 FAX 406.721.1887 www.aearchitects.com</p>		<p>ARCHITECT/ENGINEERS:</p> <p>VCI Program, Project and Construction Management</p>		<p>Drawing Title HVAC PLAN - PHASE 1</p> <p>Approved Project Director AARON DRIVDAHL, PROJECT ENGINEER VAMC FORT HARRISON</p>		<p>Project Title VAMC FORT HARRISON SPD RENOVATION</p> <p>Location FT. HARRISON, MONTANA</p> <p>Date 07/18/2014</p> <p>Checked JTW</p> <p>Drawn TCH</p>		<p>Project Number 436-14-109</p> <p>Building Number 154</p> <p>Drawing Number MH-101</p> <p>Dwg. 22 of 39</p>		<p>Office of Construction and Facilities Management</p> <p>Department of Veterans Affairs</p>	
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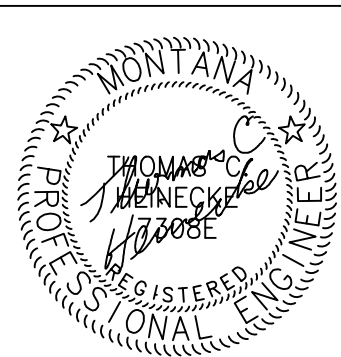
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|---|------------|
|  | KEY NOTES: |
| <p>1. NO HVAC WORK IN THIS AREA</p> <p>2. RELOCATE EXISTING THERMOSTAT</p> | |



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and Facilities
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 Department of
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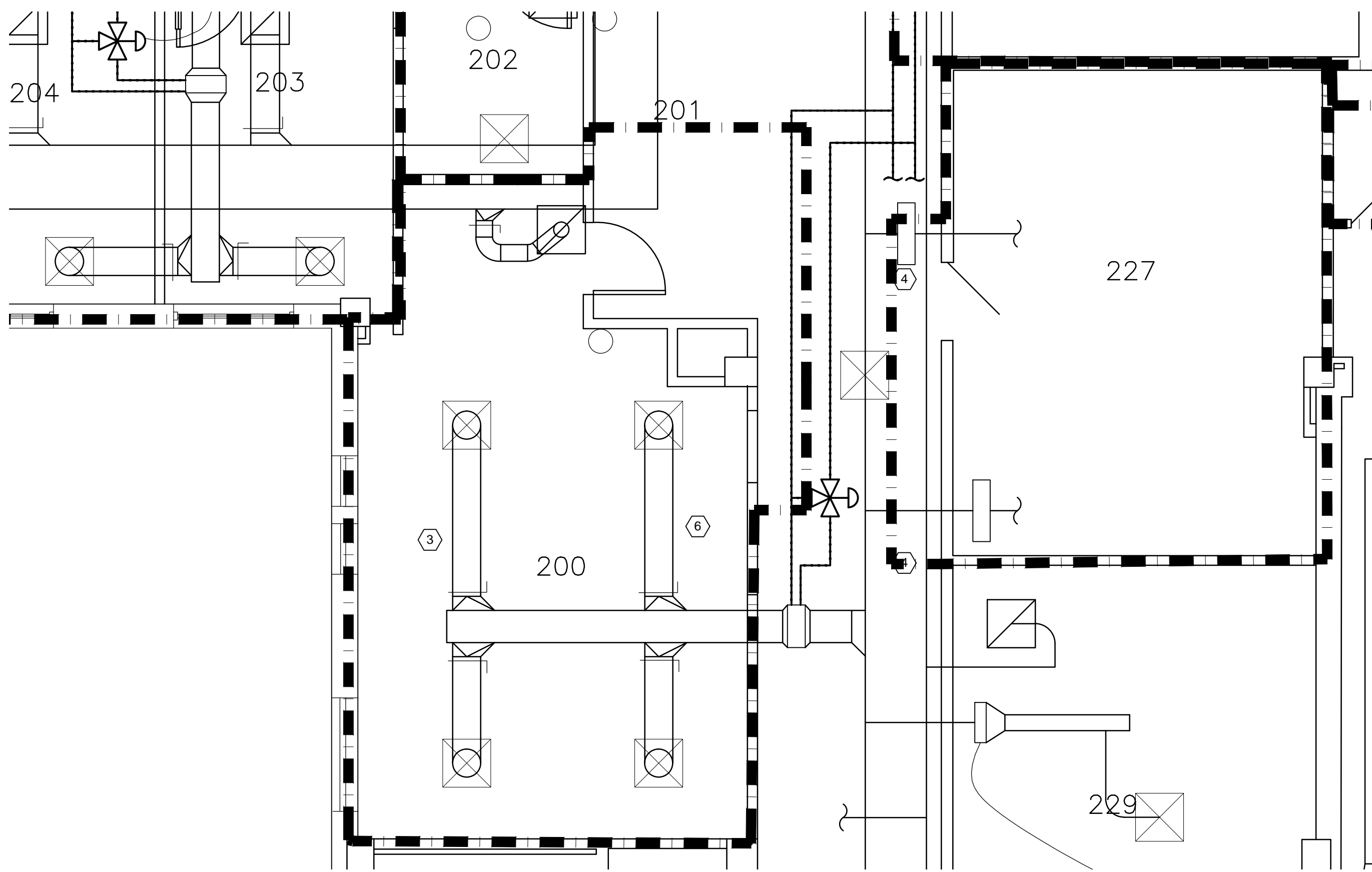


ARCHITECT/ENGINEERS:

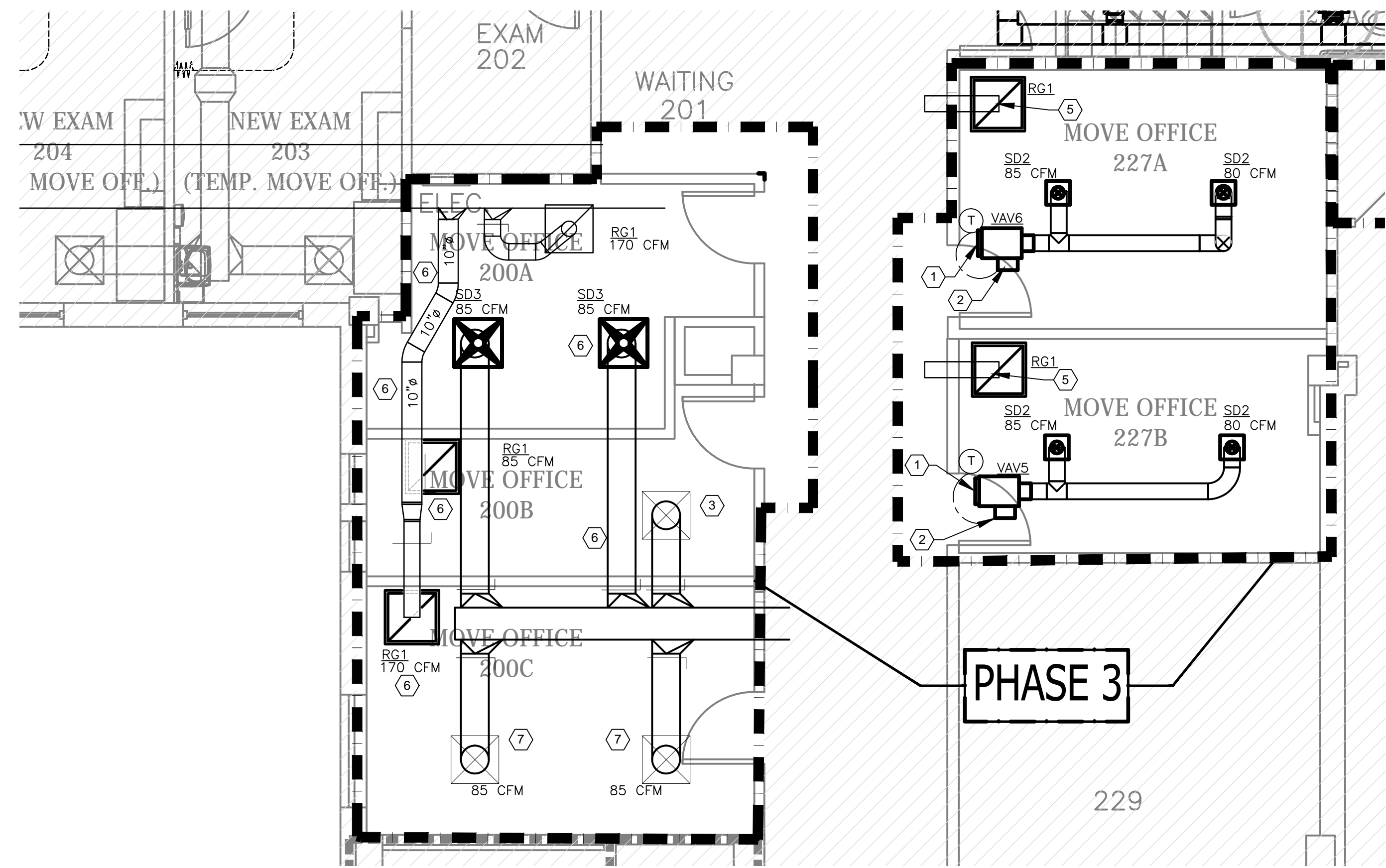
VCI Program, Project and Construction Management

Drawing Title HVAC PLAN - PHASE 2		Project Title VAMC FORT HARRISON SPD RENOVATION		Project Number 436-14-109		Office of Construction and Facilities Management
				Building Number 154		
Approved Project Director AARON DRIVDAHL, PROJECT ENGINEER VAMC FORT HARRISON		Location FT. HARRISON, MONTANA		Drawing Number MH102		 Department of Veterans Affairs
		Date 07/18/2014	Checked JTW	Drawn TCH	Dwg. 23 of 39	

one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three eighths inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot



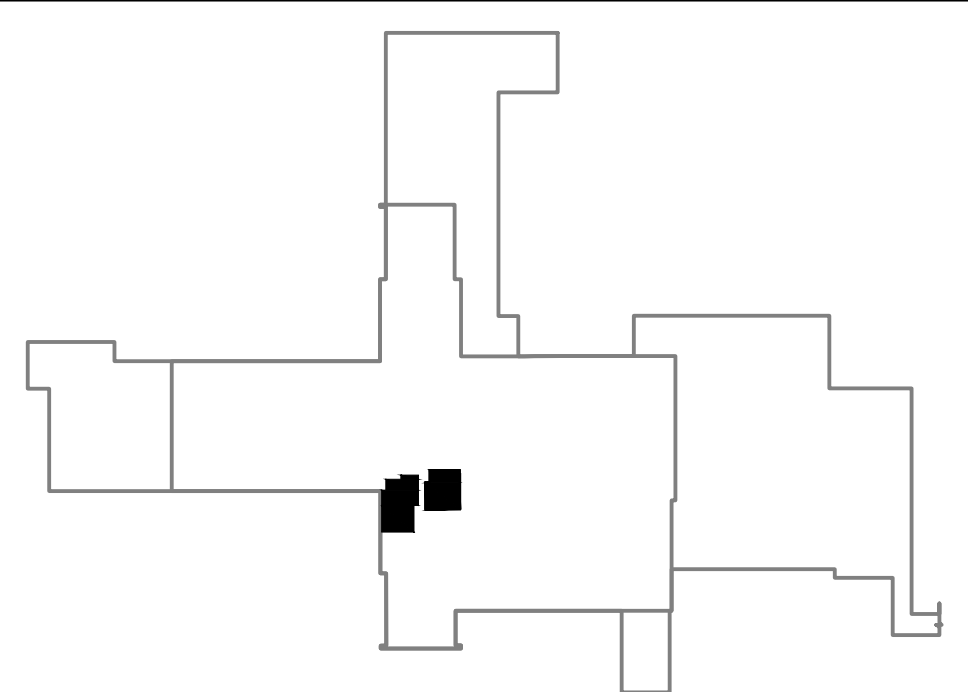
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MH103 1/4" = 1'-0"



2 NEW HVAC LAYOUT
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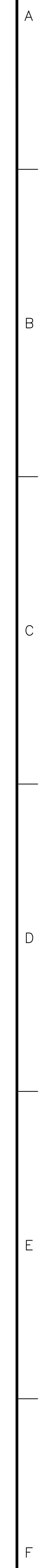
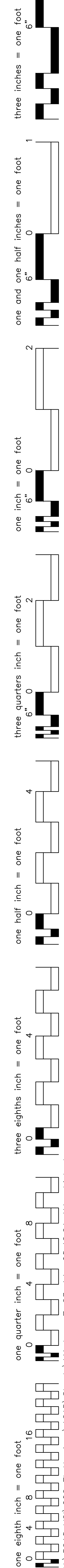
- KEY NOTES:
- 1. CONNECT TO EXISTING DUCTWORK IN THIS AREA - CONTRACTOR TO VERIFY LOCATION PRIOR TO STARTING ANY WORK
 - 2. CONNECT TO EXISTING HOT WATER SUPPLY AND HOT WATER RETURN IN THIS AREA - CONTRACTOR TO VERIFY LOCATION PRIOR TO STARTING ANY WORK
 - 3. RELOCATE DUCTWORK ADD DIFFUSERS AS SHOWN
 - 4. REMOVE EXISTING HEATING COIL AND PATCH EXISTING DUCTWORK - CONTRACTOR TO VERIFY LOCATION PRIOR TO STARTING ANY WORK
 - 5. NEW 12" ROUND DUCT FROM RETURN GRILL TO EXISTING RETURN DUCT IN ADJACENT HALLWAY - CONTRACTOR TO VERIFY LOCATION PRIOR TO STARTING ANY WORK
 - 6. ADD DUCTWORK AND DIFFUSER OR GRILLE
 - 7. NO CHANGE - RE-BALANCE AIR ONLY




KEYPLAN - PHASE 3

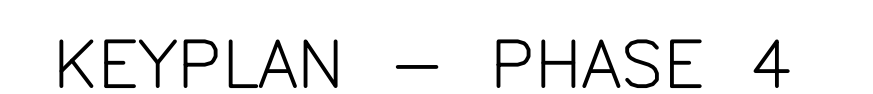
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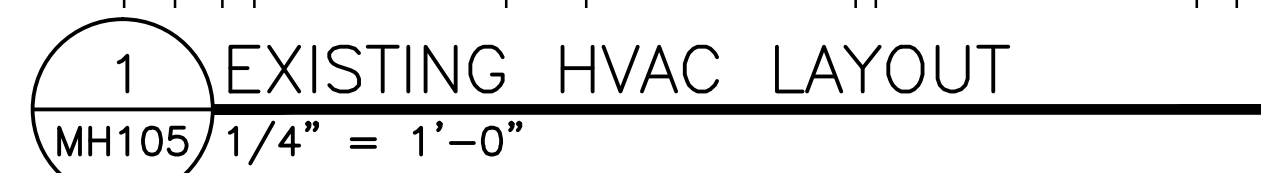
-  KEY NOTES:


 1. REMOVE ALL SUPPLY AIR DUCTWORK AND DIFFUSERS IN THIS AREA
 2. CONNECT NEW DUCTWORK TO EXISTING DUCT IN CHASE – CONTRACTOR TO VERIFY PRIOR TO STARTING ANY WORK – REPAIR WALL AS REQUIRED TO MATCH ORIGINAL CONDITIONS
 3. SUPPLY AIR DUCT CONTINUES TO VAV BOX – SEE DRAWING MH105 FOR CONTINUATION
 4. EXHAUST DUCT CONTINUES – SEE DRAWING MH105 FOR CONTINUATION
 5. OPEN RETURN GRILLE TO CEILING PLENUM



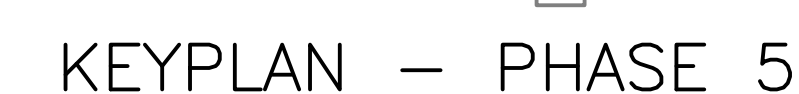
Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs[illegible]



-  KEY NOTES:

 1. REMOVE ALL HVAC SUPPLY AIR DUCTWORK AND DIFFUSERS IN THIS AREA EXCEPT AS NOTED
ALL EXHAUST AND RETURN AIR DUCTWORK AND GRILLES TO REMAIN
 2. REMOVE DIFFUSER AND CAP DUCTWORK NEAR EXISTING DIFFUSER – DUCTWORK TO REMAIN
 3. DUCTWORK AND DIFFUSERS TO REMAIN – EXCEPT WHERE SPECIFICALLY SHOWN TO BE REMOVED
 4. THIS ROOM DOES NOT HAVE RETURN AIR GRILLES – AT THE COMPLETION OF THE PROJECT VERIFY THAT THIS ROOM HAS POSITIVE PRESSURE WITH RESPECT TO THE ADJACENT ROOMS
 5. CONNECT TO EXISTING EXHAUST SYSTEM IN THIS AREA – CONTRACTOR TO VERIFY LOCATION PRIOR TO STARTING WORK
 6. EXHAUST DUCT CONTINUES SEE DRAWING #MH104 FOR CONTINUATION
 7. ALL OTHER DUCTWORK AND GRILLES IN THIS AREA ARE TO REMAIN
 8. THIS DUCT CONTINUES FROM PHASE 4 SEE DRAWING SHEET MH104 FOR CONTINUATION
 9. CONNECT TO EXISTING SUPPLY AIR DUCT IN THIS AREA – CONTRACTOR TO VERIFY LOCATION PRIOR TO STARTING ANY WORK



Construction Document Submission
18 July 2014

-	-	CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title HVAC PLAN - PHASE 5		Project Title VAMC FORT HARRISON SPD RENOVATION		Project Number 436-14-109		Office of Construction and Facilities Management				
-	-	 MORRISON MAIERLE, INC. <i>An Employee-Owned Company</i> 125 Schoolhouse Loop Kalispell, MT 59901 406.752.2216 <small>Engineers Surveyors Scientists Planners</small>		 A&E ARCHITECTS^{P.C.} ARCHITECTURE INTERIORS HISTORIC 608 NORTH 29TH BILLINGS, MT 59101 PH 406.248.2633 FAX 406.248.2427 224 N HIGGINS, SUITE B MISSOULA, MT 59802 PH 406.721.5643 FAX 406.721.1887 www.aearchitects.com				 VCI Program, Project and Construction Management		Approved: Project Director AARON DWYDAHL, PROJECT ENGINEER VAMC FORT HARRISON		Location FT. HARRISON, MONTANA <table><tr><td>Date 07/18/2014</td><td>Checked JTW</td><td>Drawn TCH</td></tr></table>				Date 07/18/2014	Checked JTW	Drawn TCH
Date 07/18/2014	Checked JTW	Drawn TCH																
Revisions:		Date												 Department of Veterans Affairs				